

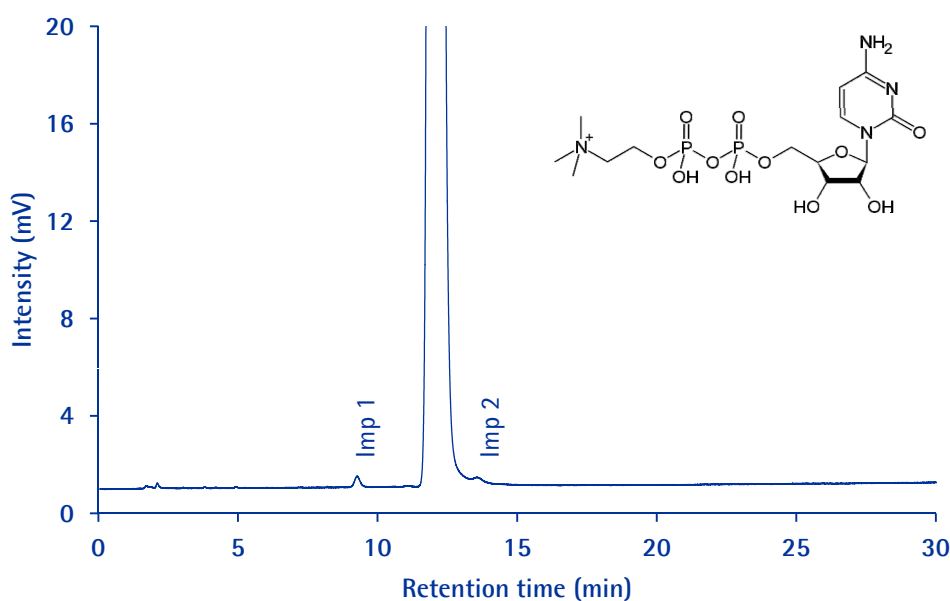
Citicoline and Related Impurities

SeQuant® ZIC®-cHILIC

Chromatographic Conditions

Column: SeQuant® ZIC®-cHILIC (3 µm, 100 Å) PEEK 150×4.6 mm
 Injection: 20 µL
 Detection: UV 276 nm
 Flow Rate: 0.75 mL/min
 Mobile Phase (v/v): Buffer: Weigh 7.7 g ammonium acetate and dissolve in 1L MilliQ water. Mix acetonitrile and buffer 70:30 (v/v). Total ionic strength: 30 mM
 Temperature: 30 °C
 Diluent: Mobile phase
 Sample: Weigh 25 mg citicoline in 50 ml volumetric flask. Dissolve in diluent.
 Pressure: 59 Bar (856 psi)

1.50661.0001



Chromatographic Data

No.	Compound	Time	T _{USP}	Resolution*
1	Impurity 1	9.3	1.1	-
2	Citicoline	12.0	1.1	7.1
3	Impurity 2	13.6	1.1	3.9